

# LTD

operating guide

LTD ST

LTD VT

LTD HB

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# LTD™ Features

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## Body

- Tone-chambered, lightweight body with AAAA bookmatched flame maple top (quilt top optional)
- Unique double cutaway design
- 5-bolt body/neck joint construction with unique heel for easy access at the upper register

## Neck

- Eastern hard-rock maple (graphite reinforcement)
- Rosewood fingerboard with 12" radius
- 25.5" scale with medium jumbo frets
- 3+3 straight headstock with patented recessed machine heads for straight/parallel string pull
- Easy access, recessed torsion rod adjustment wheel

## Electronics

- 3 Peavey VTS vintage-wound single coils on vintage model
- 2 Peavey VTS vintage-wound single coils (middle and neck) and 1 Peavey VTH high output humbucker on ST model
- 1 Peavey VTH high-output bridge humbucker and 1 Peavey dual wound-neck pickup on HB model
- Master volume and tone controls
- 5-way selector switch
- High-quality Switchcraft® output jack
- Fully-shielded electronics

## **Hardware**

- Premium, Grover® die-cast machine heads, with patented string lock feature, 18 to 1 ratio
- Polished, lightweight aluminum lowboy knobs
- Zero friction topnut
- Peavey/Hipshot Ultra Glide Tremolo System™ with patented bearing action with stainless steel saddles

## **Construction**

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### **Body**

This instrument features a unique double cutaway body design with a contoured neck heel and offers comfort, proper balance and maximum playability. It is constructed of the finest select materials chosen specifically for tonal qualities as well as for aesthetic and weight characteristics.

### **Neck**

The select hard-rock maple neck is crafted to provide unmatched rigidity and freedom from warpage. An adjustable steel torsion rod is also provided for additional reinforcement. This torsion rod features an easy access, recessed torsion rod adjustment wheel for convenience and ease of adjustment. (See Adjustment-Torsion Rod for adjustment instructions.)

### **Pickups**

All LTD™ vintage pickups are frequency tuned for maximum tonal response, as well as being fully wax-dipped for low-noise operation and resistance to microphonic feedback. The middle pickup is reverse wound/reverse polarity which provides hum-canceling operation when combined with either the neck or bridge pickups.

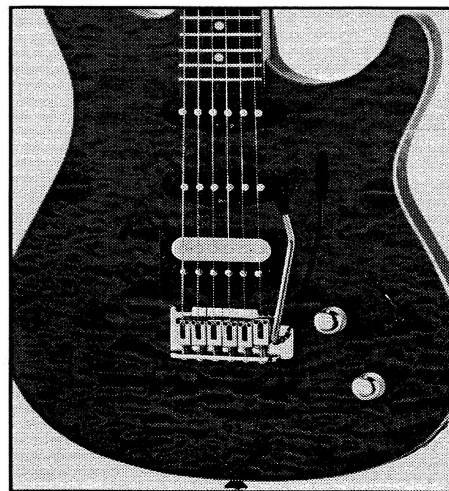


# Controls

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LTD™ VT



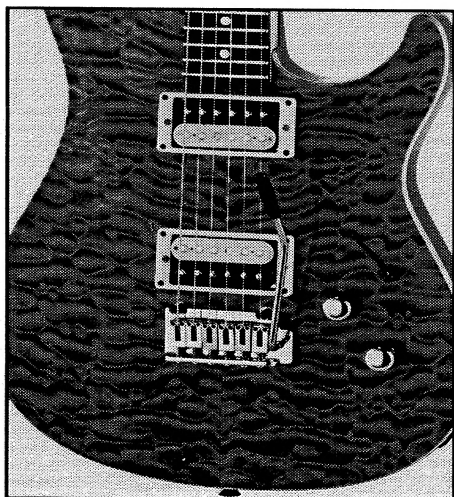
LTD™ ST

## Pickup Selector Switch

This five-position switch allows selection of any individual pickup or two combinations of multiple pickups. The middle pickup is reverse wound/reverse polarity, which provides hum-canceling operation in the 2nd and 4th positions. The available selection possibilities are as follows:

### **VT and ST models**

- (Toward neck) = Neck pickup only
- (One click down) = Neck and middle pickups
- (Middle) = Middle pickup only
- (One click down) = Middle and bridge pickups
- (Toward bridge) = Bridge humbucking pickup only



LTD™ HB

### **HB model**

- (Toward neck) = Neck pickup only
- (One click down) = Two outside coils
- (Middle) = Both pickups
- (One click down) = Two inside coils
- (Toward bridge) = Bridge pickup only

## Volume

The volume knob controls the total signal delivered from both pickups. Rotating clockwise will increase volume; rotating counter-clockwise will decrease volume.

## Tone

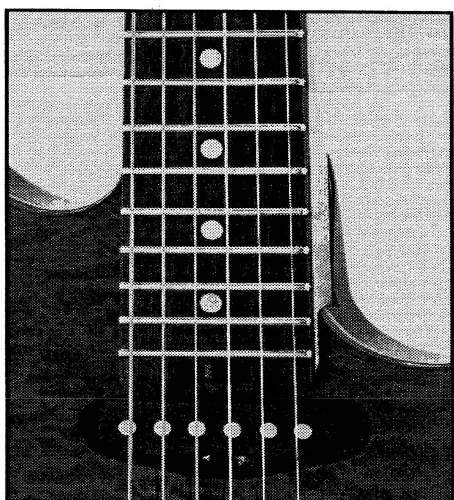
Rotating the tone knob clockwise will result in more treble (higher frequencies) and a brighter overall tonality; rotating counterclockwise will reduce the amount of treble.

## Output Jack

The output jack accepts standard guitar/instrument cables.  
(We recommend high-quality Peavey "shielded" instrument cables.)

# Adjustments

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Your instrument has been carefully adjusted at the Peavey factory for accurate intonation and playing ease. However, your playing style and requirements may necessitate additional adjustments. These should be made by your authorized Peavey dealer, but with a little care and by closely adhering to the following instructions, you may attempt these adjustments yourself.

*Please read the instructions thoroughly before attempting any adjustments.*

## Torsion Rod

All guitar necks have a slight amount of bow to keep the strings from "buzzing" on the frets. This instrument features an easy access torsion rod adjustment wheel located at the end of the neck. This wheel can be adjusted with an Allen wrench or small screwdriver. Just insert the tool into the adjustment wheel and rotate accordingly.

1. Tune the instrument to standard (A-440) pitch.
2. Fret the sixth string (E) at the first and last frets.
3. Check for clearance between the string and the eighth fret.
4. Clearance should be no less than .005" and no more than .015".

5. To increase clearance, loosen (counterclockwise) the torsion rod adjustment wheel. Less clearance (straightening of the neck) is accomplished by tightening (clockwise) the torsion rod adjustment wheel.
6. Retune the instrument and repeat steps 1-5 until proper clearance has been achieved.

## **Pickups**

The volume level between pickups can be adjusted by raising or lowering each pickup with its height-adjusting screws. Raising the pickups closer to the strings will increase the output and volume. Lowering the pickups will similarly decrease output and volume. When making these adjustments, be sure to maintain adequate clearance between the pickups and strings. Improper adjustment could result in loss of sustain and possible string buzzing.

The manner in which you adjust the height of your pickups will greatly affect your tone and output levels. Experiment with different settings until you get the sound you want. You'll be surprised at how much tonal variance can be achieved with a simple pickup adjustment.

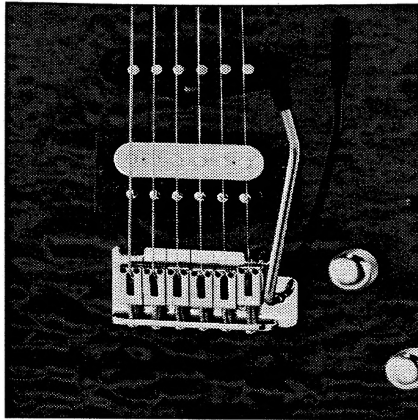
## **Bridge Assembly**

The bridge features individual bridge saddles which determine the overall string height. Individual string saddles can be adjusted to follow the curvature of the fingerboard. Use the supplied 1.5 mm Allen wrench to make the adjustment for each string. To increase string height, tighten (clockwise) the saddle height screws (two per saddle). Lower string height is accomplished by loosening (counterclockwise) the saddle height screws.

The Peavey/Hipshot Ultra Glide Tremolo System™ with patented bearing action comes setup from the factory set flush to the body with no pull back. To adjust the bridge for floating operation raise the pivot bolts with the supplied 5/32 allen wrench. For best results the spring claw should then be adjusted so that the bridge plate sets parallel to the top of the body when tuned to pitch. Playing technique, or style will depend on just how much pullback and spring tension is required .

# String Intonation

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Accurate string intonation settings ensure that your instrument will play in tune at any point on the neck. Although “perfect intonation” is an impossibility with a fretted instrument, the proper adjustments will maximize the accuracy of individual notes up and down the neck.

Intonation is set by comparing the pitch of an open string to the pitch of the same string when played one octave higher at the 12th fret. The actual “vibrating length” of that string is varied

until the notes are both at the correct pitch. The vibrating length of the string is altered by adjusting the individual saddles either forward or backward, depending on whether the fretted note is sharper or flatter in pitch than the open note.



This process should always be performed with new strings. Intonation problems can often result from worn strings. It is often difficult for the untrained ear to determine when the open note and the fretted note are at precisely the same pitch. Some players find that comparing the 12th fret harmonic of the string (rather than the open note) to the fretted note is much easier.

A harmonic is played by plucking the string with the right hand while touching the string with the left index finger (as lightly as possible) directly above the 12th fret. The left finger is drawn away as quickly as possible after the string is plucked, producing a “chime” effect. This chimed note is then compared to the fretted note. For greater ease and accuracy, we recommend one of the many types of electronic guitar tuners that are available from most music stores.

1. Ensure that the torsion rod and string height settings are accurate and the strings are new.
2. Tune the instrument to standard (A-440) pitch.
3. Hold the instrument in a normal playing position or place the guitar on a clean, flat surface so that the body is in contact with the work surface. Any pressure on the neck will affect intonation settings.
4. Play the first (E) string open and compare it to the pitch of the same string when it is played at the 12th fret. These notes should sound the same. (Actually, there is an octave difference.)

5. Using a small Phillips head screwdriver, adjust the string saddle so that both the fretted and open notes are the same. If the fretted note is sharper than the open note, the vibrating length of the string must be increased. Move the bridge saddle to the rear – away from the pickups. If the fretted note is flat, the vibrating length must be shortened. Move the bridge saddle forward – toward the pickups – to shorten the length.



### **NOTE**

It will often be necessary to retune the open string to standard pitch after the bridge position is altered.

6. Repeat steps 4 and 5 for the remaining strings.
7. Repeat steps 1-6 until the intonation of all the strings is accurately adjusted.

## **Care of Your Instrument**

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This is a high-quality musical instrument constructed from the finest materials, using the most up-to-date production methods. With reasonable care, it should provide many years of service and outstanding playability.

### **Temperature and Humidity**

It is important to protect your instrument from any extreme or sudden changes in temperature or humidity. You should store the instrument in its case when not in use.

### **Strings**

Your instrument is equipped with high-quality, Peavey nickel-wound balanced 9s. String life may be greatly extended by frequent cleaning with string cleaner. Dirt and perspiration tend to build up on the underside of the strings, so it is often necessary to slide a rag between the strings and the fingerboard. Dirt-laden strings cause tuning and intonation problems, as well as rust and corrosion.

For optimum performance, strings should be changed approximately once a month, or after about every twenty-four hours of playing. Some players prefer to change strings more often.



## Finish

Your instrument has a polyester/urethane finish that is both durable and weather-resistant, but requires care. Regular cleaning with Peavey guitar polish is recommended. Between polishes, the instrument should be wiped with a dry, soft cloth.

## Accessories

Peavey offers a full line of accessories for your instruments. Cases, amplifiers, strings, polishes, straps and more are all available from a Peavey dealer near you.



## **WARNINGS**

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- All amplification accessories, microphones, mixers, etc. must be properly grounded and should be utilized with a three-wire mains system in order to prevent electrical shock.
- Do not come into contact with other electrical apparatus when playing (or touching) your instrument. The metal parts of this instrument are grounded according to proper and accepted industry practice, but it is possible to encounter an electrical shock when coming into contact with another electrical apparatus if it has improper grounding facilities.
- Do not use improper or poorly designed guitar straps or other inferior means of support. Possible injury could result if improper, inferior, ill-fitting, or worn out straps are used. The instrument could possibly fall, causing bodily injury or damage to the instrument or associated equipment if the holding devices fail for any reason.
- Guitar strings are made from very strong steel alloys and are under considerable tension when tuned to pitch. Exercise extreme care when tuning (especially above concert pitch) or when employing string bending or "popping" playing techniques. The possibility of string breakage and personal injury exists under these conditions.



The patch cord between the guitar and the amplifier is an extremely important link for optimum performance. A high-quality, well-shielded cord should be used in this application.

# PEAVEY ELECTRONICS CORPORATION LIMITED WARRANTY

Effective Date: July 1, 1998

## What This Warranty Covers

Your Peavey Warranty covers defects in material and workmanship in Peavey products purchased and serviced in the U.S.A. and Canada.

## What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized Peavey Dealer.

## Who This Warranty Protects

This Warranty protects only the original retail purchaser of the product.

## How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser. The duration of the Warranty is as follows:

Product Category	Duration
<b>Guitars/Basses, Amplifiers, Pre-Amplifiers, Mixers, Electronic Crossovers and Equalizers</b>	<b>2 years *(+ 3 years)</b>
<b>Drums</b>	<b>2 years *(+ 1 year)</b>
<b>Enclosures</b>	<b>3 years *(+ 2 years)</b>
<b>Digital Effect Devices and Keyboard and MIDI Controllers</b>	<b>1 year *(+ 1 year)</b>
<b>Microphones</b>	<b>2 years</b>
<b>Speaker Components (incl. speakers, baskets, drivers, diaphragm replacement kits and passive crossovers) and all Accessories</b>	<b>1 year</b>
<b>Tubes and Meters</b>	<b>90 days</b>

*[\*denotes additional warranty period applicable if optional Warranty Registration Card is completed and returned to Peavey by original retail purchaser within 90 days of purchase.]*

## What Peavey Will Do

We will repair or replace (at Peavey's discretion) products covered by warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for warranty service, the consumer must pay initial shipping charges. If the repairs are covered by warranty, Peavey will pay the return shipping charges.

## How To Get Warranty Service

(1) Take the defective item and your sales receipt or other proof of date of purchase to your Authorized Peavey Dealer or Authorized Peavey Service Center.

**OR**

(2) Ship the defective item, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301 or Peavey Canada Ltd., 95 Shields Court, Markham, Ontario, Canada L3R 9T5. Include a detailed description of the problem, together with a copy of your sales receipt or other proof of date of purchase as evidence of warranty coverage. Also provide a complete return address.

## Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

*Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.*

## Exclusions of Damages

PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

*Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.*

*This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.*

If you have any questions about this warranty or service received or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365 / Peavey Canada Ltd. at (905) 475-2578.

*Features and specifications subject to change without notice.*



**PEAVEY**

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